

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

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Application Serial Number: 10/542,937A
Source: IFWO
Date Processed by STIC: 1/11/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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Revised 01/10/06



IFWO

RAW SEQUENCE LISTING

DATE: 01/11/2007

PATENT APPLICATION: US/10/542,937A

TIME: 09:39:07

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 7 Mallen Perez, Miguel
 8 Alonso Karlezi, Alberto
 9 Reyes Leal, Gilbert
 10 Castillo Fernandez, Sergio
 11 Martinez Martinez, Antonio
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 receptor
 14 gene mutations associated with familial hypercholesterolemia
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see pp 6-9

**Does Not Comply
Corrected Diskette Needed**

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364 gctagtcttg aactcctgac ctcaagtgat ccgcccacct cagcctccca aagtgtctggg 9600
366 attacaggtg tgaccacta cactcggcct tatttttact tatttatgca attttacta 9660
368 ttgctatatt ctaggaggca ctgtggaatt gcactgtgga attttagtat tgctgtattt 9720
370 cagcaagcca tgaggtctgt cagcacacgg ctttgggcat tttgtgaaga taactgatgc 9780
372 cagctgagcc aaggcaggtt cctgattcca cccactggca ggcaccgagg tctctgctgt 9840
374 tactgatggt ttctctgtgg attgatgggc ttaaggccag accacagctg caatggctca 9900
376 cctctgccaa aggccaggct cgttggggca gagacctatt ccggactgag cctcctggtg 9960
378 aattagagag gtagaaaatg ggaggacggg ggcaggtggg ctattacagc gaggaaaatg 10020
380 cccaccctga gttgtattag ataacttttg gaggttcagga actttccaat aaagtgggtt 10080
382 ccacagcagg attacttact gactccctaa tagaaaagaag gcaggcacag gccgggctg 10140
384 ttggctcatg tctgtaatcc cagcacgttg ggaggctgag gcgggtggat cacaaggtca 10200
386 ggagatccag accatcctgg ctaacaaagt gaaacccctg ctctactaaa aatacaaaaa 10260
388 attaggctgg gcgtgggtgg tcgtgcctgt aatcccagca ctttgggagg ctgaggcggg 10320
390 cggatcacga ggtcaggaga tcgagaccgt cctggctaac acggtaaaac cccatctcta 10380
392 ctaaacatac aaaaaaaaaat tagccaggtg tgggtggcgg cgctgtagt cccagctact 10440
394 caggaggctg aggcaggaga gtggtgtgaa ctcgggaggc gcagcttgca gtgagccgag 10500
396 actgcgccac tgcactccag cctgggcaac agacagagac tccgtctcaa aaaaaaaaaa 10560
398 aaaaaatata aaaaattagc caggcgtggt ggcacgtgca cgtgactgta gtcccagcta 10620
400 cttgggaggc tgaggcagga gaattgtttg aaccggggag acggaggttg cagtgagccg 10680
402 agatcgcgcc actgcactcc agcctgggtg acagagctag actccgtcaa aaaacaaaaa 10740
404 acaaaaaaca aaaaaacaaa aaaaaaaaaa cagcaggaac tggcaggtct tccctgaaga 10800
406 gataaaaaaa aaaaaatgca gttgcaacac aaaagcagcc acagagaaaa gcaaaccat 10860
408 atatggtatt tattatgcac cgagtgtggc tctaactact tttttttttt taattgagag 10920
410 acagcctggc tctgttgatt gggctggagt gcagtggcgc gaccgtagct cattgcagcc 10980
412 tcaacctcct tggctcaagc aatcctccta cctcagcctc ctgagttagt gggaccacag 11040
414 gtgtgagcca ccacgcctgg ctaattgttt tttttttttt tgtagagaca gggctcact 11100
416 atgtggccca ggctggtttc caactcctgg gctcaagtga tctcccacc tctgcctccc 11160
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454 gtttctactc tgcgccagg ctggagtgca aaggcgcat cttggttcac tgcaagctcc 12300
456 gcctcctggg ttcatgccat tctcctgcct ctgcctcatg agtaactgag actacaggcg 12360
458 cccaccacca cgcccggtta atttttttgt atttttttag tagagatggg gtttcacctt 12420

```

<210> 5
 <211> 24
 <212> DNA
 <213> artificialsequence

Artificial Sequence

this needs explanation in <2207-<2237 section

<400> 5
 cacattgaaa tgctgtaaat gacg

(see p. 7)

24

<210> 6
 <211> 24
 <212> DNA
 <213> artificialsequence

same error

in seqs 6-257

24

<400> 6
 ctattctggc gcctggagca agcc

<210> 7
 <211> 24
 <212> DNA
 <213> artificialsequence

this page

shown as a

sample of error

24

<400> 7
 ttgagagacc ctttctcctt ttcc

<210> 8
 <211> 20
 <212> DNA
 <213> artificialsequence

<400> 8
 gcatatcatg cccaaagggg

20

<210> 9
 <211> 24
 <212> DNA
 <213> artificialsequence

<400> 9
 ttcctttgag tgacagttca atcc

24

<210> 10
 <211> 24
 <212> DNA
 <213> artificialsequence

<400> 10
 gataggctca atagcaaagg cagg

24

<210> 11
 <211> 24
 <212> DNA

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/542,937A

DATE: 01/11/2007
TIME: 09:39:08

Input Set : A:\U015859-4..ST25.txt
Output Set: N:\CRF4\01112007\J542937A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 35360,35361

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30
Seq#:31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54
Seq#:55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78
Seq#:79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100,101
Seq#:102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117,118,119
Seq#:120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135,136,137
Seq#:138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153,154,155
Seq#:156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171,172,173
Seq#:174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189,190,191
Seq#:192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207,208,209
Seq#:210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225,226,227
Seq#:228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243,244,245
Seq#:246,247,248,249,250,251,252,253,254,255,256,257

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Artificial Sequence

<210> 251

<211> 25

<212> DNA

<213> artificialsequence;

delete ;

ctcccatcggttaagcgcgggccgg

delete this

<twofivethree;DNA;artificialsequence

<400> 251

ctcccatcg gtcagcgcg ggcgg

25

10/542,937A 9

<210> 163

<211> 21

<212> DNA

<213> artificialsequence

Artificial Sequence

<400> 163

ccgtcggggg cctggatgtc t

21

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/542,937A

DATE: 01/11/2007

TIME: 09:39:08

Input Set : A:\U015859-4..ST25.txt

Output Set: N:\CRF4\01112007\J542937A.raw

L:1230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:35301
L:2097 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:5, <213>
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L:2097 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213>
ORGANISM:artificialsequence
L:2097 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:2097
L:2106 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:6, <213>
ORGANISM:artificialsequence
L:2106 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:6, <213>
ORGANISM:artificialsequence
L:2106 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:2106
L:2115 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:7, <213>
ORGANISM:artificialsequence
L:2115 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:7, <213>
ORGANISM:artificialsequence
L:2115 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:7,Line#:2115
L:2124 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:8, <213>
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L:2124 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:8, <213>
ORGANISM:artificialsequence
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L:2133 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:9, <213>
ORGANISM:artificialsequence
L:2133 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:9, <213>
ORGANISM:artificialsequence
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L:2142 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:10, <213>
ORGANISM:artificialsequence
L:2142 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:10, <213>
ORGANISM:artificialsequence
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L:2151 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:11, <213>
ORGANISM:artificialsequence
L:2151 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:11, <213>
ORGANISM:artificialsequence
L:2151 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:11,Line#:2151
L:2160 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:12, <213>
ORGANISM:artificialsequence
L:2160 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:12, <213>
ORGANISM:artificialsequence
L:2160 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:2160
L:2169 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:13, <213>
ORGANISM:artificialsequence
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ORGANISM:artificialsequence
L:2169 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:13,Line#:2169
L:2178 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:14, <213>
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L:2187 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:15, <213>
ORGANISM:artificialsequence

//

L:2187 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:15, <213>
ORGANISM:artificialsequence
L:2187 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:15,Line#:2187
L:2196 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:16, <213>
ORGANISM:artificialsequence
L:2196 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:16, <213>
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L:2196 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:2196
L:2205 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:17, <213>
ORGANISM:artificialsequence
L:2205 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:17, <213>
ORGANISM:artificialsequence
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ORGANISM:artificialsequence
L:2214 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:18, <213>
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ORGANISM:artificialsequence
L:2223 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:19, <213>
ORGANISM:artificialsequence
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L:2232 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:20, <213>
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L:2232 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:20, <213>
ORGANISM:artificialsequence

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VERIFICATION SUMMARY

DATE: 01/11/2007

PATENT APPLICATION: US/10/542,937A

TIME: 09:39:08

Input Set : A:\U015859-4..ST25.txt

Output Set: N:\CRF4\01112007\J542937A.raw

L:2232 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:20,Line#:2232
L:2241 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:21, <213>
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L:2241 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:21, <213>
ORGANISM:artificialsequence
L:3517 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:163
L:4311 M:259 W: Allowed number of lines exceeded, <213> ORGANISM:
L:4313 M:259 W: Allowed number of lines exceeded, <213> ORGANISM: